

Manohar Korikana

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Education

- University of Colorado Boulder** | Master of Science in Data Science **Aug 2024 - Present**
• Coursework: Neural Networks, Statistical Methods and Applications, Data Mining, Machine Learning, DataCenter Scale Computing
- Vasavi College Of Engineering** | Bachelor Of Engineering in Electronics And Communication **Aug 2019 - May 2023**
Engineering
• Coursework: C, C++ , SQL, Data Base Management Systems, Image and Video Processing using Machine Learning, Data Structures and Algorithms, Probability and its Stochastic Process, Engineering Mathematics.

Technologies

- Programming Languages:** Python, SQL, C++ , HTML, CSS, Java Script
- ML/DL Concepts & Frameworks:** TensorFlow, Keras, PyTorch, Scikit-Learn, Regression, Classification, Ensemble methods, Clustering, CNN, RNN, GRU, LSTMs.
- LLM & AI:** Transformers, GPT, BERT, NLP, Hugging Face, LangChain, RAG, Agentic AI, AutoGen, LangGraph, CrewAI.
- Databases, Data Handling & Visualization:** MySQL, PostgreSQL, VectorDBs, NumPy, Pandas, Tableau, PowerBI, Matplotlib, Seaborn.
- Tools, Platforms & Cloud Services:** AWS, GCP, Docker, Kubernetes, MinIO, Microsoft Excel, Jupyter Notebook, Github, VS Code.

Experience

- AI ENGINEERING INTERN** **Sep 2025 - Present**
beaconAI
• Working on the design, development, testing, and deployment of AI agents, including RAG pipelines and LLM fine-tuning. Supporting the integration of AI/ML models with APIs, cloud services, and databases.
- Developing user interfaces and tools that allow seamless interactions with AI agents and systems. Contributing to workflow automation and cloud deployment of AI-driven applications, ensuring scalability and reliability.
- SOFTWARE ENGINEER I** **Feb 2023 - July 2024**
NCR ATLEOS
• **C++ Development:**Worked as a support developer for the backend functionality of ATM product features using C++ (device level).Contributed to creating and linking DLL files (utilizing the Component Object Model - COM) within the product architecture to integrate different components.
- **Automation using Python(Web Scraping):** Wrote Automation scripts in Python to streamline Jira workflows like accessing and updating Jira Fields, checking the parameters of the Jira and sending automated notifications to Jira assignees.
- DATA SCIENCE INTERN** **Sep 2021 - Nov 2021**
VERZEO
• Conducted exploratory data analysis (EDA) on car sales datasets to identify yearly sales trends and patterns, preprocessing raw data to ensure quality and consistency. Developed machine learning models for future car sales prediction using various regression techniques and evaluation methods, and created interactive Tableau dashboards to present insights and model results to stakeholders.

Academic Projects

- AutoCorp Hub - Multi Agent Automation Platform** **2025**
• Developed an AI-driven automation platform integrating multiple intelligent agents for enterprise operations (HR Onboarding, Mail Automation, Meeting Scheduler, and Payroll), built using FastAPI, Docker, and Kubernetes for modular and scalable deployment, used Google Cloud Platform (GCP) services such as GKE, Vertex AI, Cloud APIs, and Storage Buckets for model orchestration, data management, and cloud-based automation workflows.
- Trend Analysis Across Diverse Fields** **2024**
• Performed in-depth data analysis on diverse datasets across healthcare, weather, agriculture, environment, and GDP domains. Built predictive models using advanced regression techniques such as XGBoost, Gradient Boosting, Bagging, Random Forest, and KNN, and visualized insights using Python (Matplotlib, Seaborn) to forecast future trends.
- Diabetic Retinopathy Detection Using CNN** **2022**
• Developed Neural Network Model to predict the Diabetic Retinopathy disease by processing the retinal image. Worked on Data Collection, Data Cleaning, Data exploration, and Prediction. Skills Used: Python, Tensorflow, Pandas, Numpy, NeuralNetworks.

Achievements

- Winner of the Smart India Hackathon (SIH) - 2022 contest.
- Academic Merit award in Bachelor of Engineering Program.